

Rev. 10/16/12

Overview

The VOC Sensor Verification Kit allows a known VOC sample to be generated and applied to a BAPI room or duct VOC sensor. The sample tests the dynamic range of the sensor to see if the sensor element is working correctly.

The kit consists of a plastic bottle and a 60mL syringe and a comprehensive set of instructions. The customer has to supply 70% minimum Isopropyl Alcohol.



VOC Sensor Verification Kit

Ordering Information/Part Numbers

Part Number	Description
ALC/VOC-KIT	VOC Sensor Verification Kit

BAPI Volatile Organic Compound (VOC) Sensors

- VOC Alone or Temperature and Humidity Combination
- Output is Correlated to a CO₂ Value Allowing You to Ventilate Using ASHRAE's CO₂-based Algorithm

Humans respire Volatile Organic Compounds (VOCs) as well as CO₂. The BAPI sensor is able to measure these VOCs and indicate when a space is occupied just as well as a CO₂ sensor.

The BAPI Sensor is different from other VOC sensors because it has been optimized for Demand Controlled Ventilation (DCV). Using a calibration algorithm, the output is converted to a CO₂ level which lets you use ASHRAE's occupancy-based VPR schedule to ventilate. (More info on this converted output is available on our website bapihvac.com)

Besides VOCs from respiration, the sensor picks up air contaminants from other sources such as building materials, perfumes, colognes and furniture off gassing. Using this sensor to ventilate is a way of achieving true indoor air quality and not just CO₂ dilution.

The unit is available as VOC alone or as a combination temperature and humidity sensor. The optional display alternates between the measured values and is field adjustable between °F or °C. An optional three color LED indicates "VOC Level" of Good, Fair or Poor.



VOC Sensors with Temperature Setpoint and Override.

The top unit has the VOC Level of "Good, Fair or Poor" shown by an arrow on the display. The bottom unit has the VOC level shown by a 3-color LED.



VOC Duct Sensor



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